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NOTES

- 1 This index refers to all the material contained in the texts of Units 1 to 32 of S102. The supplementary material (Summer School Laboratory Notebooks, CALCHEM Notes, etc.) is not indexed.
- 2 For each entry, the page references for each Unit in which the entry appears follow the Unit number, which is printed in **bold**.
- 3 Flagged terms are printed in **bold**. Numbers of Units in which these terms are flagged are denoted by an asterisk. For example, the entry **polar solvents**, 13–14*, 68; 17–18, 23 tells you that the term polar solvents is flagged in Units 13–14 on page 68, and that it also occurs on page 23 of Units 17–18.

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USEFUL INFORMATION FOR S102

THE GREEK ALPHABET

alpha	A	α	iota	I	i	rho	P	ρ
beta	B	β	kappa	K	κ	sigma	Σ	σ
gamma	Γ	γ	lambda	Λ	λ	tau	T	τ
delta	Δ	δ	mu	M	μ	upsilon	Y	υ
epsilon	E	ϵ	nu	N	ν	phi	Φ	ϕ
zeta	Z	ζ	xi	Ξ	ξ	chi	X	χ
eta	H	η	omicron	O	o	psi	Ψ	ψ
theta	Θ	θ	pi	Π	π	omega	Ω	ω

SI UNITS USED IN S102

Physical quantity	Name of unit	Symbol	Physical quantity	Name of unit	Symbol
length	metre	m	electric current	ampere	A
mass	kilogram	kg	temperature	kelvin	K
time	second	s	amount of substance	mole	mol

PREFIXES FOR MULTIPLES OF UNITS

Mult. factor	Prefix	Symbol	Mult. factor	Prefix	Symbol
10^{-1}	deci	d	10^1	deca	da
10^{-2}	centi	c	10^2	hecto	h
10^{-3}	milli	m	10^3	kilo	k
10^{-6}	micro	μ	10^6	mega	M
10^{-9}	nano	n	10^9	giga	G
10^{-12}	pico	p	10^{12}	tera	T
10^{-15}	femto	f	10^{15}	peta	P

DERIVED SI UNITS USED IN S102

Physical quantity	Name of derived unit	Symbol	Derived unit (in SI)
force	newton	N	$\text{kg m s}^{-2} = \text{J m}^{-1}$
energy	joule	J	$\text{kg m}^2 \text{s}^{-2} = \text{N m}$
power	watt	W	J s^{-1}
electric charge	coulomb	C	A s
electric potential difference	volt	V	$\text{J A}^{-1} \text{s}^{-1}$
magnetic field strength	tesla	T	$\text{N m}^{-1} \text{A}^{-1}$
frequency	hertz	Hz	s^{-1}

S102 UNITS

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2	Measuring the Solar System	20	Inheritance and cell division
3	Motion under gravity	21	Genes and evolution
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7-8	Plate tectonics: a revolution in the Earth sciences	24	DNA: molecular aspects of genetics
9	Energy	25	Ecology
10	Modelling the behaviour of light	26	Biology reviewed
11-12	Atomic structure	27	Earth materials and processes
13-14	Chemical reactions and the Periodic Table	28-29	Geological time and Earth history
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16	Chemical energetics	31	Quantum mechanics: atoms and nuclei
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